What is claimed is:

1. A spiral antenna (1) having four approximately parallel and electrically conducting spiral arms (11, 12, 13, 14),
wherein the spiral arms (11, 12, 13, 14) are each connected to a coplanar conductor (2) at their respective inner spiral arm ends (5, 6, 7, 8) for supplying and/or receiving signals.

2. The spiral antenna (1) according to Claim 1,
wherein the coplanar conductor (2) includes an inner conductor (21; 30) and at least one reference potential surface (22, 23; 35, 36), the inner conductor (21; 30) and the at least one reference potential surface (22, 23; 35, 36), each being connected to two of the four inner spiral arm ends (5, 6, 7, 8).

3. The spiral antenna (1) according to Claim 1 or 2,
wherein the coplanar conductor (2) is arranged perpendicular to the plane of the spiral antenna (1).

4. The spiral antenna (1) according to Claim 1, 2 or 3,
wherein the coplanar conductor (2) and the spiral antenna (1) are mounted on different carrier materials (45, 50).

5. The spiral antenna (1) according to Claim 1, 2 or 3,
wherein the coplanar conductor (2) and the spiral antenna (1) are applied to the same carrier material.

6. The spiral antenna (1) according to one of the preceding claims,
wherein the coplanar conductor (2) is formed as a taper at least in part.

7. The spiral antenna (1) according to one of the preceding claims,
wherein the spiral antenna (1) is designed in the form of an Archimedean spiral or a logarithmic spiral.

8. The spiral antenna (1) according to one of the preceding claims,

wherein the spiral antenna (1) is supplied with a symmetrical electric field distribution on the coplanar conductor (2), yielding an omnidirectional transmission characteristic.

9. The spiral antenna (1) according to one of the preceding claims,
wherein the spiral antenna (1) is supplied with an asymmetrical electric field distribution on the coplanar conductor (2), yielding a directional transmission characteristic.

10. The spiral antenna (1) according to one of the preceding claims,
wherein the spiral antenna (1) is arranged in or on the body of a motor vehicle.